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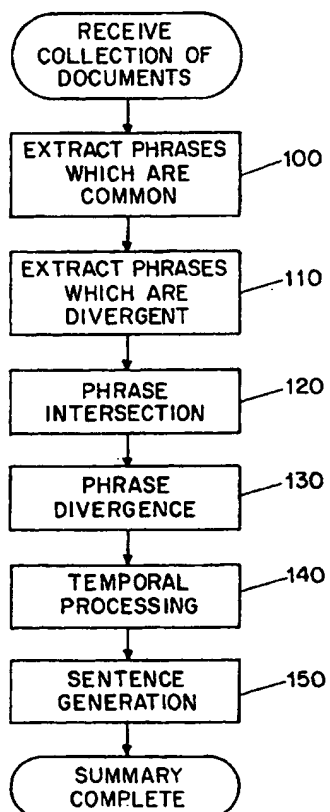
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[Continued on next page]

(54) Title: MULTI-DOCUMENT SUMMARIZATION SYSTEM AND METHOD



(57) Abstract: A summary for a collection of related documents can be generated by extracting phrases (100) from the documents which include common focus elements. Phrase intersection analysis (120) is then performed on the extracted phrases (100) to generate a phrase intersection table, where identical or equivalent phrases are identified. Temporal processing (140) on the phrases in the phrase intersection table is performed to remove ambiguous time references and to sort the phrases in a temporal sequence. Sentence generation is then used to combine the phrases in the phrase intersection table into a coherent summary.

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## INTERNATIONAL SEARCH REPORT

International application No.  
PCT/US00/04118

**A. CLASSIFICATION OF SUBJECT MATTER**

IPC(7) : G06F 17/10, 17/27, 15/00

US CL : 704/1, 9, 10; 707/530, 531, 532

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 704/1, 9, 10; 707/530, 531, 532

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Extra Sheet.

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No
A,P	US 5,924,108 A (FEIN ET AL) 13 JULY 1999, ABSTRACT.	1-22
A	US 5,638,543 A (PEDERSEN ET AL) 10 JUNE 1997.	1-22
Y	US 5,077,668 A (DOI) 31 DECEMBER 1991, ABSTRACT.	1, 8 AND 16
A	US 5,848,191 A (CHEN ET AL) 08 DECEMBER 1998	1-22
A	US 4,965,763 A (ZAMORA) 23 OCTOBER 1990.	1-22
Y	US 5,838,323 A (ROSE ET AL) 17 NOVEMBER 1998, ABSTRACT.	1, 8 AND 16
A	US 5,297,027 A (MORIMOTO ET AL) 22 MARCH 1994.	1-22

☒ Further documents are listed in the continuation of Box C. ☐ See patent family annex.

* Special categories of cited documents:	*T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
*A* document defining the general state of the art which is not considered to be of particular relevance	*X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
*B* earlier document published on or after the international filing date	*Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
*L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	*A* document member of the same patent family
*O* document referring to an oral disclosure, use, exhibition or other means	
*P* document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search

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## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,689,716 A (CHEN ET AL) 18 NOVEMBER 1997, ABSTRACT.	1, 8 AND 16
A	US 5,778,397 A (KUPIEC ET AL ) 07 JULY 1998.	1-22
A	US 5,384,703 A (WITHGOTT ET AL) 24 JANUARY 1995.	1-22

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## B. FIELDS SEARCHED

Electronic data bases consulted (Name of data base and where practicable terms used):

WEST/EAST

search term: (summar\$ or abstract\$ or condens\$) same (document or text or information)